

AMENDMENTS TO THE SPECIFICATION

I. Please replace the paragraph beginning at page 16, line 6, which starts with “However, if the negative feedback path 507...” with the following amended paragraph.

However, if the negative feedback path 507 illustrated in Fig. ~~4~~5 is not provided, the quantization errors arisen each time the quantization is performed are accumulated for M times, during the period from the time instant T_{i+1} to the time instant T_{i+M} . Thus, when the negative feedback path 507 is provided, the SN ratio improves in proportion to the square root of M.

II. Please replace the paragraph beginning at page 20, line 9, which starts with “Also to the adder 706, the output...” with the following amended paragraph.

Also to the adder 706, the output from the quantizer 708 is negatively fed back via the negative feedback path 709. As in the case of the DA converter 607 in the correlator 60 of Second Embodiment, the negative feedback path 709 may be replaced with a negative feedback 719 path including a DA converter 717 for converting the output, supplied from the quantizer 708, to an analog value.